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Subject: Re: Saving pixmaps

Posted by [Peter Mason](#) on Fri, 19 Sep 1997 07:00:00 GMT

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On Wed, 17 Sep 1997, Joe Means wrote:

> I have run xinteranimate and saved the pixmaps. Now I want to access them  
> singly and save them to disk for a future IDL session. How?

You're probably not going to be able to do quite what you would like here.  
(I'm familiar with IDL 4's handling of pixmaps, but I'd be surprised if IDL 5's  
handling is different...)

A pixmap is an invisible window. It has an ID and associated pixmap memory.  
Pixmap memory is different to the (regular) memory associated with normal  
variables. It's an entirely separate thing. The only way to set or get  
it is through commands like TV, TVRD() and DEVICE.

So if you want to save a pixmap to disk, you first have to copy its memory  
to a regular variable with a command like `mem_var=TVRD(pixmap_id)`.  
And to restore a "saved pixmap", you have to create the pixmap window, read  
the saved data, and TV it to the pixmap window. (24-bit color complicates  
TVRD() and TV a little, and 8-bit colour means that you have to save and  
restore the colour table as well.)

All this is possible with CW\_ANIMATE and the support routines in  
CW\_ANIMATE.PRO. But I think that one would have to be rather keen to take  
this route, and I don't think that it would save time.

The simplest "solution" would be to regenerate the animation from scratch  
in each IDL session. If the frames are quite complicated (i.e., not just  
the TV'ing of images) then you could save some time (for future sessions) by  
grabbing the rendered frames with TVRD() and saving them as images. You would  
still have to rebuild the animation "from scratch" in future sessions, but  
you'd be doing it by TV'ing images rather than rendering complicated graphics.

For saving the pixmap images, you'll need the pixmap IDs. After rendering  
the frames, you can get these IDs with the command:

```
CW_ANIMATE_GETP, cw_animate_base_widget, pixmap_ids
```

Once you have the pixmap IDs, you will also be able to display individual  
frames. To do this, you will first need to create a regular window or  
draw widget (same size as the pixmaps), and then use `DEVICE,COPY=...` to copy  
the pixmap window to the regular window.

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